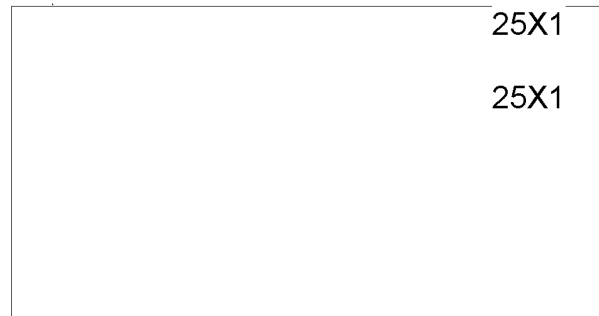
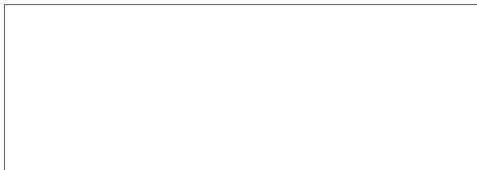


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p. 15 25X1

August 10, 1956




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**SUBJECT: Contract RD-94
Task Order No. 2**



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In accordance with Article 2 of the basic contract, there are forwarded herewith two (2) copies of the Monthly Progress Report for July, 1956 on Task Order No. 2 of RD-94. The report is dated August 1, 1956. This report is UNCLASSIFIED. An additional copy is being held  by the project engineer for the use of your personnel while at this location.

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Since work on this contract commenced July 1, 1956, no expenditure figures are available to report to you with this letter. However, commencing with the mailing of the August, 1956 Progress Reports we will report expenditures on a monthly basis as has been the case under Task Order No. 1.

Very truly yours,



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**Assistant Manager
Government Contract Administration**

**TRR:val
f-14608
Enclosures**

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cc:



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P-185

MONTHLY PROGRESS REPORT

July 1956

**Task Order No. 2
Contract No. RD-94**

AUDIO NOISE REDUCTION CIRCUITS

The object of this project is to develop a noise reduction circuit suitable for use in separating speech intelligence from a signal containing speech and noise. The proposed method consists of passing the signal through several frequency selective channels. Each channel contains a nonlinear element which discriminates against the noise when the speech information in the channel is greater than the noise.

During July a preliminary study has been initiated to determine the most suitable number of channels required, and the spacing of these channels in the audio region. From this study it is apparent that the band spacing can be based upon several factors, such as, articulation index, the shape of the masking noise spectrum curve, the critical band widths, or a combination of these factors.

In order to evaluate various channel placements and band widths, a four channel noise reduction circuit has been designed. Four channels, properly spaced should be sufficient to provide speech information for a limited number of speech sounds as spoken by one individual. Various filter combinations will be tried with this circuit in order to ascertain minimum band widths and channel spacings. The four channel circuit is now under construction in the model shop.

RAH:jml

August 1, 1956

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